1/8 NPT PORTED, MANUAL, MECHANICAL AND PILOT OPERATED AIR VALVES – *"The Finest in Simplicity"*
2, 3 and 4 Way - 2 Position – Operation to 150 psi Air

Suitable for Vacuum directional flow applications, but NOT for holding vacuum.

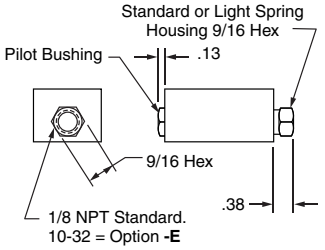
Short stroke of lightweight Delrin® spools provides fast, positive, and reliable response.

Note 1: Specify Normally Open by substituting -20 for -2 & -30 for -3.

Air Pilot



Standard 2 Way & 3 Way spring return are normally closed. For normally open the actuators may be exchanged end for end or by specifying -20 for -2 & -30 for -3.
Minimum pilot pressure:
- Standard spring . . . . . 60 psi
- Light spring (Option **-L**) . . . 40 psi
- Double pilot . . . . . 20 psi



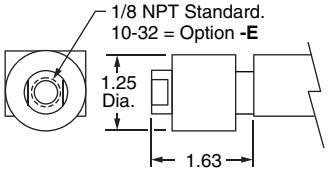
2 Way	3 Way	4 Way
Single Pilot - Spring Return		
18SP-2	18SP-3	18SP-4
Double pilot		
18DP-2	18DP-3	18DP-4
Replacement spool & seals		
1800-902	1800-903	1800-904

Light spring, Option **-L**
10-32 pilot port, Option **-E**

Air Pilot Amplifier



1" Delrin piston in aluminum housing meets low pressure requirements. Standard 2 Way & 3 Way spring return are normally closed. For normally open the actuators may be exchanged end for end or by specifying -20 for -2 & -30 for -3.
Minimum pilot pressure:
- Standard spring . . . . . 10 psi
- Light spring (Option **-L**) . . . . 7 psi
- Against 0 psi pilot . . . . . 2 psi



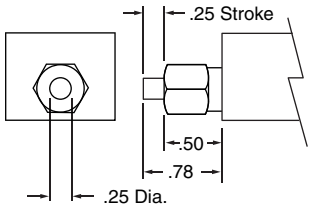
2 Way	3 Way	4 Way
Single Pilot (Amplifier) - Spring Return		
18SA-2	18SA-3	18SA-4
Double pilot - 2 amplifiers		
18DA-2	18DA-3	18DA-4
Double pilot - 1 amplifier, 1 air pilot		
18DAP-2	18DAP-3	18DAP-4
When both pilots are pressurized, the amplifier overrides.		
Replacement spool & seals		
1800-902	1800-903	1800-904

Light spring, Option **-L**
10-32 pilot port, Option **-E**

Rod Actuator



Stainless steel rod in brass bushing. Standard 2 Way & 3 Way spring return are normally closed. For normally open the actuators may be exchanged end for end or specify by substituting -20 for -2 & -30 for -3.
Force to actuate:
- Standard spring . . . . . 6.5 lb.
- Light spring (Option **-L**) . . . 5.0 lb.
- Double Rod . . . . . 1.2 lb.



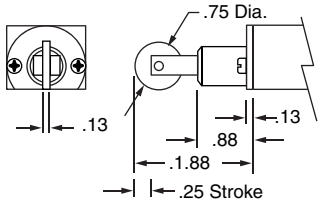
2 Way	3 Way	4 Way
Single Rod - Spring Return		
18SR-2	18SR-3	18SR-4
Single Rod- Pilot Return		
18SRP-2	18SRP-3	18SRP-4
Double rod		
18DR-2	18DR-3	18DR-4
Replacement spool & seals		
1800-902	1800-903	1800-904

Light return spring, Option **-L**

Roller Cam



Case hardened steel roller and shaft in hard anodized aluminum housing. Standard 2 Way & 3 Way spring return are normally closed. For normally open specify by substituting -20 for -2 & -30 for -3.
Force to actuate:
- Standard spring . . . . . 6.5 lb.
- Light spring (Option **-L**) . . . 5.0 lb.
- Double Cam. . . . . 1.2 lb.

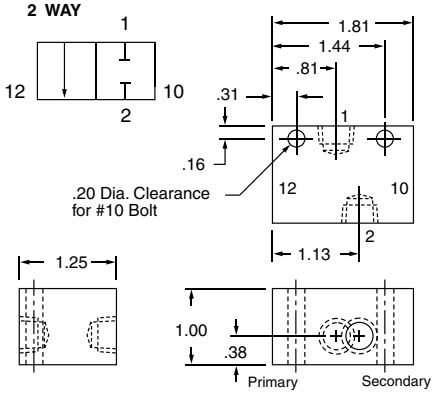


2 Way	3 Way	4 Way
Single Cam - Spring Return		
18CR-2	18CR-3	18CR-4
Single Cam - Pilot Return		
18CRP-2	18CRP-3	18CRP-4
Replacement spool & seals for above		
1800-912	1800-913	1800-914
Double cam		
18CCR-2	18CCR-3	18CCR-4
Replacement spool & seals		
1800-922	1800-923	1800-924

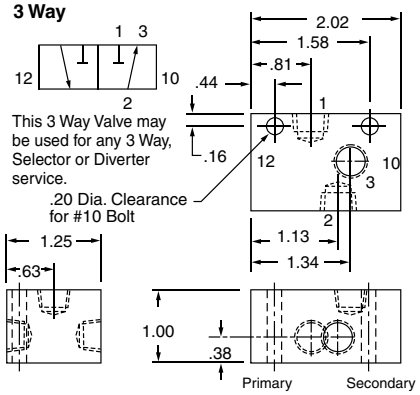
Light return spring, Option **-L**

Valve Body Dimensions

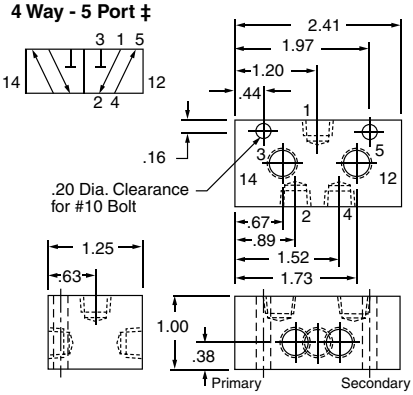
2 WAY



3 Way



4 Way - 5 Port ‡



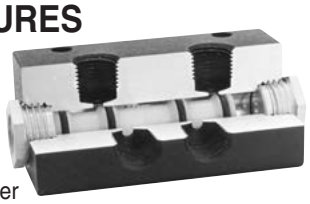
Standard 2 & 3 way spring return models are normally closed. Models with thread in actuators may be converted to normally open by exchanging actuators end for end. Other models require specification and factory assembly. See note 1.

‡ 4 way - 5 port May be used as either single inlet - dual exhaust or dual inlet - single exhaust.

Specifications subject to change without notice or incurring obligation

FEATURES

- Aluminum bar body
- Anodized black
- Honed & burnished bore
- Pressure balanced spool
- Delrin spool
- Buna-N seals
- Operation to 150 psi
- 4 Way - 5 port may be used as either single inlet - dual exhaust or dual inlet - single exhaust.



- Prelubed with Magnalube®–G Grease
- Interchangeability of Parts
- Cv = 0.27 (14.2 SCFM Free Flow to Atmosphere at 80 psi Supply)
- Operating temperature +32° to +180°F; Solenoid controlled models +150°F max. See pages 11.9 and 11.11.

OPTIONS

- Light spring – Specify Option **-L**
- #10-32 Pilot Port – Specify Option **-E**
- Viton seals – Specify Option **-V**
- Spools for bleeder pilot
- Multiple stacking with or without common inlet. Consult factory.

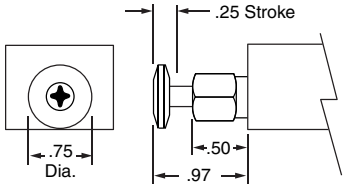
Note 1: Specify Normally Open by substituting -20 for -2 & -30 for -3.

OPERATING TEMPERATURE FOOTNOTE SEE PAGE 11.1

Small Palm Button



Un-anodized aluminum button with stainless steel rod in brass bushing. Standard 2 Way & 3 Way spring return are normally closed. For normally open the actuators may be exchanged end for end or specify by substituting -20 for -2 & -30 for -3.
Force to actuate:
Standard spring . . . . . 6.5 lb.
Light spring (Option **-L**) . . . 5.0 lb.
Double Button . . . . . 1.2 lb.



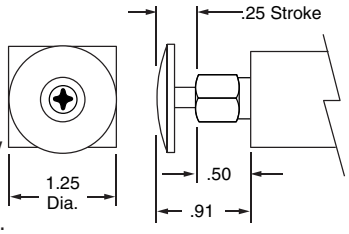
2 Way	3 Way	4 Way
Single Button - Spring Return		
18PS-2	18PS-3	18PS-4
Single Button - Pilot Return		
18PSP-2	18PSP-3	18PSP-4
Double Button		
18PPS-2	18PPS-3	18PPS-4
Replacement spool & seals		
1800-902	1800-903	1800-904

Light spring Option **-L**

Large Palm Button



Red anodized aluminum button with stainless steel rod in brass bushing. Standard 2 Way & 3 Way spring return are normally closed. For normally open the actuators may be exchanged end for end or specify by substituting -20 for -2 & -30 for -3.
Force to actuate:
Standard spring . . . . . 6.5 lb.
Light spring (Option **-L**) . . . 5.0 lb.
Double Button . . . . . 1.2 lb.



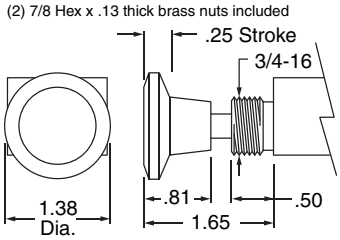
2 Way	3 Way	4 Way
Single Button - Spring Return		
18PL-2	18PL-3	18PL-4
Single Button - Pilot Return		
18PLP-2	18PLP-3	18PLP-4
Double Button		
18PPL-2	18PPL-3	18PPL-4
Replacement spool & seals		
1800-902	1800-903	1800-904

Light spring Option **-L**

Panel Mount Button



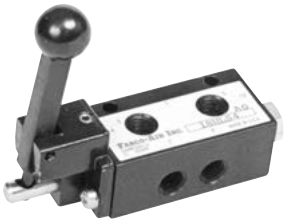
Phenolic button with plated steel rod in brass bushing; **black** button standard, **red** button Option **-R**. Standard 2 Way and 3 Way assemblies are normally closed with knob in the "out" position. For normally open specify by substituting -20 for -2 and -30 for -3.
Force to actuate:
Standard spring . . . . . 6.5 lb.
Light spring (Option **-L**) . . . 5.0 lb.
Double Button . . . . . 1.2 lb.
Detented . . . . . 3.0 lb.



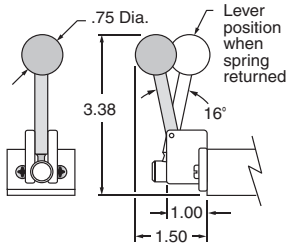
2 Way	3 Way	4 Way
Spring Return		
18PMS-2	18PMS-3	18PMS-4
Pilot Return		
18PMP-2	18PMP-3	18PMP-4
Replacement spool & seals for above.		
1800-902	1800-903	1800-904
Detented (Push Pull)		
18PMD-2	18PMD-3	18PMD-4
Replacement spool & seals		
1800-942†	1800-943†	1800-944†

Light spring Option **-L**

Hand Lever



Hardened & plated steel shaft with unique connection to spool results in positive shifting. Standard 2 Way & 3 Way spring return are normally closed. For normally open specify by substituting -20 for -2 & -30 for -3.
Force to actuate:
Standard spring . . . . . 4.0 lb.
Light spring (Option **-L**) . . . 3.0 lb.
Detented . . . . . 2.0 lb.



2 Way	3 Way	4 Way
Spring Return		
18HLS-2	18HLS-3	18HLS-4
Detented		
18HL-2	18HL-3	18HL-4
Replacement spool & seals		
1800-932†	1800-933†	1800-934†

† Includes factory assembled spool attachments.
Light spring Option **-L**

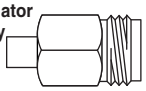
MOST THREADED-IN OPERATORS ARE INTERCHANGEABLE BETWEEN ENDS

Palm Button Assembly



No. **1800-1** Large Button
No. **1800-2** Small Button

Rod Actuator Assembly



No. **1800-3**

Spring Housing Assembly



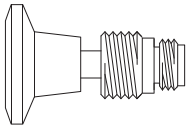
No. **1800-4** Light Spring only (for Option L).
No. **1800-5** Standard Spring only
No. **1800-46** Light Spring & Housing Ass'y (for Option **-L**).
No. **1800-56** Standard Spring & Housing Assembly.

Pilot Bushing

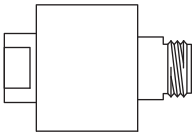


No. **1800-10** 10-32 Port
No. **1800-18** 1/8 NPT Port

Panel Mount Button Assembly
For Detented (with Spool)
No. **1800-7-2** (2W NC) **1800-7-20** (2W NO)
1800-7-3 (3W NC) **1800-7-30** (3W NO)
Above NOT interchangeable End for End
1800-7-4 (4 Way)
For Spring or Pilot Return (No Spool)
1800-8 (2 or 3 Way, NO or NC, and 4 Way))



Air Pilot Amplifier
1/8 NPT Standard



No. **18 AMP-1** 1/8 NPT Port
No. **10 AMP-1** 10-32 Port Option **-E**

***Fabco-Air** has the expertise and willingness to design. modify and adapt these valves to your necessary and specific job requirements. Please advise us of your needs.*

Specifications subject to change without notice or incurring obligation